

In the Claims:

Please amend the claims as follows:

Claims 1-36 (Cancelled).

Claim 37 (New). A data-mirroring method comprising:

obtaining control from an I/O process executing on a host computer, the I/O process  
processing a first I/O request for writing data to a first device;

creating a second I/O request for writing the data to the second device; and

returning control to the I/O process.

Claim 38 (New). The method of claim 37, further comprising determining that the  
first device is being mirrored by a second device.

Claim 39 (New). The method of claim 37, wherein obtaining control from an I/O  
process comprises:

identifying a forward pointer to instructions to be executed by the I/O process in  
processing the first I/O request; and

causing the forward pointer to point to a front-end detour that includes instructions for  
creating the second I/O request.

Claim 40 (New). The method of claim 37, wherein obtaining control from an I/O  
process comprises intercepting a call by an IOSVSSCH module to a DDTSIO module.

Claim 41 (New). The method of claim 37, wherein obtaining control from an I/O  
process comprises:

identifying a forward pointer that points to instructions for executing a DDTSIO  
module, and

causing the forward pointer to point to instructions for executing a front-end detour, the front-end detour including instructions for creating the second I/O request.

Claim 42 (New). The method of claim 37, further comprising:

obtaining control from the I/O process after the first I/O request has been made available to a first data storage system managing the first device; and

obtaining information indicative of a status of the first I/O request.

Claim 43 (New). The method of claim 37, further comprising:

identifying a return pointer to a module that is intended to receive information indicative of a status of the first I/O request; and

causing the return pointer to point to a back-end detour, the back-end detour including instructions for causing the second I/O request to be provided to a second data storage system managing the second device.

Claim 44 (New). The method of claim 43, wherein identifying a return pointer comprises identifying a pointer to an IOSVSSCH module.

Claim 45 (New). A computer-readable medium having encoded thereon software for executing a data-mirroring computer-readable medium, said software comprising instructions for:

obtaining control from an I/O process executing on a host computer, the I/O process processing a first I/O request for writing data to a first device;

creating a second I/O request for writing the data to the second device; and

returning control to the I/O process.

Claim 46 (New). The computer-readable medium of claim **45**, wherein the software further comprises instructions for determining that the first device is being mirrored by a second device; and

Claim 47 (New). The computer-readable medium of claim **45**, wherein the instructions for obtaining control from an I/O process comprise instructions for:

identifying a forward pointer to instructions to be executed by the I/O process in processing the first I/O request; and

causing the forward pointer to point to a front-end detour that includes instructions for creating the second I/O request.

Claim 48 (New). The computer-readable medium of claim **45**, wherein the instructions for obtaining control from an I/O process comprise instructions for intercepting a call by an IOSVSSCH module to a DDTSIO module.

Claim 49 (New). The computer-readable medium of claim **45**, wherein the instructions for obtaining control from an I/O process comprise instructions for:

identifying a forward pointer that points to instructions for executing a DDTSIO module, and

causing the forward pointer to point to instructions for executing a front-end detour, the front-end detour including instructions for creating the second I/O request.

Claim 50 (New). The computer-readable medium of claim **45**, wherein the software further comprises instructions for instructions for:

obtaining control from the I/O process after the first I/O request has been made available to a first data storage system managing the first device; and

obtaining information indicative of a status of the first I/O request.

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Claim 51 (New). The computer-readable medium of claim **45**, wherein the software further comprises instructions for:

identifying a return pointer to a module that is intended to receive information indicative of a status of the first I/O request; and

causing the return pointer to point to a back-end detour, the back-end detour including instructions for causing the second I/O request to be provided to a second data storage system managing the second device.

Claim 52 (New). The computer-readable medium of claim **32**, wherein the instructions for identifying a return pointer comprise instructions for identifying a pointer to an IOSVSSCH module.